13 January 1959

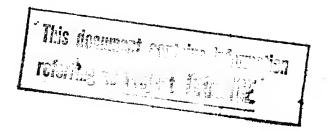
MEMORANDUM POR: Deputy Director (Plans)

SUBJECT:

Altitude and Range Capability U-2 Aircraft

- 1. The following is in reference to your query pertaining to the recent zoom—climb intercept tests against the U-2.
- 2. The first intercept run was made with the U-2 at 60,000 feet. This was not a realistic altitude. The intercept served to orientate and familiarize pilots with procedures.
- 3. The remainder of the tests began each day with the U-2 at approximately 64,000 feet (1 plus 45 after T.O.). This altitude compares favorably with the published cruise climb tables. The aircraft altitude when leaving the target area was approximately 67,000 feet (5 plus 15 after T.O.) which again compares favorably with the attached cruise climb chart.
- 4. The values on the attached graph are for an MAGA standard day. The altitude advantage for an aircraft without slipper tanks for each hour of flight is as follows:

Hour	Altitude Mifference
1	2100 feet
2	1950 feet
3	1850 feet
1.	1600 feet
5	1500 feet
6	1500 feet
7	1400 feet
8	1300 feet
9	1300 feet
10	1400 feet



	5. Factors	which affect altitude are as follows:	
25X1D	a. Co	ld day—actual cruise aliitude is higher. feet per degree colder than standard.	Altitude
25X1D	b. He	feet per degree warmer than standard.	
		25X1A\$16323	
		Colonel Director of Ope	USAF retions

Att: Chart

ATT the

1 - Addressee

2 - Dep Dir, DPD 3 - Ope subj

4 - Ops chron 5 - CHAL chron